Notice of Allowability	Application No.	Applicant(s)	
	09/508,095	ZUCHT ET AL.	
	Examiner	Art Unit	
	Chih-Min Kam	1653	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to 8/18/04.			
2. The allowed claim(s) is/are 30-33,36,37,40,41,44 and 45. 3. The drawings filed on are accepted by the Examiner.			
4.			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☑ Interview Summary Paper No./Mail Dat 08), 7. ☑ Examiner's Amendr	te <u>2004-0917;20040913</u> .	

Application/Control Number: 09/508,095

Art Unit: 1653

An **Examiner's Amendment** to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William Player on September 17, 2004.

Examiner's Amendments to the Specification:

Please insert the following paragraph at page 1 after the title:

The present application is a 371 of PCT/EP98/05899, filed September 16, 1998, which claims the priority of German Application No. 19740604.1, filed September 16, 1997, and German Application No. 19805385.1, filed February 11, 1998.

Please add the following sentence before the amino acid sequences at page 3, line 6: Preferably, peptides are used which have the following amino acid sequences:

Examiner's Amendments to the Claims:

Claims 30, 36, 40 and 41 have been amended as follows:

30. (Currently amended) A <u>pure</u> peptide having bifidogenic properties, and wherein the peptide is [-] an amino acid sequence selected from the group consisting of:

- a) $[R_1-]EVAARARVVW[-R_2]$ (SEQ ID NO: 8),
- b) $[R_1-]ARRARVVWAAVG[-R_2]$ (SEQ ID NO: 22),
- c) $[R_1-]ARRARVVWCAVG[-R_2]$ (SEQ ID NO: 14), and $[R_3-]CIAL[-R_4]$ (SEQ ID NO: 15)
- d) $[R_1-]ARRARVVWCAVGE[-R_2]$ (SEQ ID NO: 16)[,] $[R_3-]CIAL[-R_4]$ (SEQ ID NO: 15).

[wherein

R₁, R₂ independently represent H or a peptide containing up to 100 amino acids; and R₃, R₄ independently represent OH, NH₂ or a peptide containing up to 100 amino acids;

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-the amino acid sequence N-modified by amidation, acetylation, sulfation, phosphorylation, glycosylation, or oxidation; or

-a fusion protein, thereof, obtained by chemical bonding.]

36. (Currently amended) A <u>pure</u> peptide having bifidogenic properties and selected from the group consisting of SEQ ID NO:14 and SEQ ID NO:16.

40. (Currently amended) A <u>pure</u> peptide having bifidogenic properties, and wherein the peptide is

[a)] an amino acid sequence selected from the group consisting of:

 $[R_1-]EVAARARVVW[-R_2]$ (SEQ ID NO: 8),

 $[R_1-]ARRARVVWCAVG[-R_2]$ (SEQ ID NO: 14),

 $[R_3-]CIAL[-R_4]$ (SEQ ID NO: 15)

 $[R_1-]ARRARVVWCAVGE[-R_2]$ (SEQ ID NO: 16),

 $[R_3-]CIAL[-R_4]$ (SEQ ID NO: 15)

 $[R_1]GRRRSVQWCAVSQPEATKCFQWQRNMRKVRGPPVSCIKRDSPIQCIQ\\$

 $A[-R_2]$

(SEQ ID NO: 19),

[R₁-]ARRARVVWAAVG[-R₂] (SEQ ID NO: 22), and

[wherein

 R_1 , R_2 independently represent NH₂, an amino acid, or a peptide containing up to 100 amino acids; and

R₃, R₄ independently represent COOH, CONH₂, an amino acid, or a peptide containing up to 100 amino acids, or]

 $[R_1]$ YQRRPAIAINNPYVPRTYYANPAVVRPHAQIPQRQYLPNSHPPTVVRR PNLHPSF $[-R_2]$ (SEQ ID NO: 17)[,]

[wherein

 R_1 , R_2 independently represent H, or a peptide containing up to 100 amino acids excluding amino acid sequence 1-62 of human κ -casein, and

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 R_3 , R_4 independently represent OH, NH₂, or a peptide containing up to 100 amino acids excluding amino acid sequence 1-62 of human κ -casein; or

- b) the amino acid sequence N-modified by amidation, acetylation, sulfation, phosphorylation, glycosylation, or oxidation.]
- 41. (Currently amended) A <u>pure</u> peptide having bifidogenic properties, and wherein the peptide is [-] <u>an</u> amino acid sequence <u>selected from the group consisting of:</u>
 - a) <u>EVAARARVVW</u> (SEQ ID NO: 8),
 - b) ARRARVVWCAVG (SEQ ID NO: 14),
 - c) ARRARVVWAAVG (SEQ ID NO: 22), [or] and
 - d) $[R_1-]ARRARVVWCAVG[-R_2]$ (SEQ ID NO: 14)[,] $[R_3-]CIAL[-R_4]$ (SEQ ID NO: 15).

[wherein

 R_1 , R_2 independently represent H or a peptide containing up to 100 amino acids; and

R₃, R₄ independently represent OH, NH₂ or a peptide containing up to 100 amino acids; or

-the amino acid sequence N-modified by amidation, acetylation, sulfation, phosphorylation, glycosylation, or oxidation.]

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Min Kam whose telephone number is (571) 272-0948. The examiner can normally be reached on 8.00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon Weber can be reached at 571-272-0925. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chih-Min Kam, Ph. D. Cot/C Patent Examiner

CMK September 17, 2004